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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/775,529	02/01/2001	Seong-Min Park	678-562	2261

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EXAMINER	
LE, LANA N	

ART UNIT	PAPER NUMBER
2618	

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Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Office Action Summary	Application No.	Applicant(s)	
	09/775,529	PARK ET AL.	
	Examiner	Art Unit	
	Lana N. Le	2618	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

1)☒ Responsive to communication(s) filed on *15 June 2007*.

2a)☒ This action is **FINAL**. 2b)☐ This action is non-final.

3)☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

4)☒ Claim(s) *1-11* is/are pending in the application.

4a) Of the above claim(s) _____ is/are withdrawn from consideration.

5)☐ Claim(s) _____ is/are allowed.

6)☒ Claim(s) *1-5,10 and 11* is/are rejected.

7)☒ Claim(s) *6-9* is/are objected to.

8)☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

9)☐ The specification is objected to by the Examiner.

10)☐ The drawing(s) filed on _____ is/are: a)☐ accepted or b)☐ objected to by the Examiner.

Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).

Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).

11)☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

12)☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).

a)☐ All b)☐ Some * c)☐ None of:

1.☐ Certified copies of the priority documents have been received.

2.☐ Certified copies of the priority documents have been received in Application No. _____.

3.☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

1) ☐ Notice of References Cited (PTO-892)
2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
3) ☐ Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date _____.
4) ☐ Interview Summary (PTO-413) Paper No(s)/Mail Date. _____.
5) ☐ Notice of Informal Patent Application
6) ☐ Other: _____.

DETAILED ACTION

Claim Rejections - 35 USC § 102

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

> A person shall be entitled to a patent unless –
>
> (e) the invention was described in a patent granted on an application for patent by another filed in the United States before the invention thereof by the applicant for patent, or on an international application by another who has fulfilled the requirements of paragraphs (1), (2), and (4) of section 371(c) of this title before the invention thereof by the applicant for patent.

The changes made to 35 U.S.C. 102(e) by the American Inventors Protection Act of 1999 (AIPA) and the Intellectual Property and High Technology Technical Amendments Act of 2002 do not apply when the reference is a U.S. patent resulting directly or indirectly from an international application filed before November 29, 2000. Therefore, the prior art date of the reference is determined under 35 U.S.C. 102(e) prior to the amendment by the AIPA (pre-AIPA 35 U.S.C. 102(e)).

2. Claims 5 and 11 are rejected under 35 U.S.C. 102(e) as being anticipated by Seidensticker, Jr. et al (US 6,128,012).

Regarding claim 5, Seidensticker, Jr. et al disclose a key input method for diversifying key functions in a mobile telecommunication terminal, comprising:

detecting whether a user has set a scroll function when displaying a menu screen (user has selected to set and customize the fast scroll rate function: col 12, lines 49-63);

if so, detecting whether an input state of a key set for a scroll function is maintained for a predetermined period of time (based on timer A, B until button

released), the key being any one of a plurality of keys provided on the mobile telecommunication terminal (one of keys of keypad 36; fig. 1, 2; col 5, lines 7-20);

and controlling directional movement of a cursor in the displayed menu screen (move selected position in list depending only on maintenance of the key input state for the predetermined period of time and only after the predetermined time has elapsed (predefined time required to initiate fast scrolling rate (col 12, line 63 – col 13, line 41; fig. 8).

Regarding claim 11, Seidensticker, Jr. et al disclose the key input method of claim 5, wherein the key set for the scroll function is one of a plurality of functional keys (down function key 40) in the mobile telecommunication terminal (figs. 1, 8).

Claim Rejections - 35 USC § 103

3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

> (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

4. Claims 1-4 are rejected under 35 U.S.C. 103(a) as being unpatentable over Uchida (US 6,161,026) in view of Cushman et al (US 6,125,287) (hereinafter Cushman).

Regarding claim 1, Uchida discloses a key input method for diversifying key functions in a mobile telecommunication terminal (fig. 1; col 1, lines 7-10), comprising the steps of:

detecting (via detecting section 11) whether a user has inputted a key (user inputted switch key 10) corresponding to a menu (menu selection) (col 4, lines 48-62; col 4, lines 14-26);

detecting whether the user has consecutively inputted (double-clicked) the same key (10) before elapse of a predetermined time period (within 1 second) for consecutive input (twice pushing key) (col 4, lines 48-62; col 6, line 66 – col 7, line 12),

if so, performing a submenu of the menu according to a number of times of consecutive input of the same key (same switch key 10) (selected one item of the menu after double clicking is a submenu is displayed; col 6, line 66 – col 7, line 12; col 5, lines 28-31). Even though Uchida discloses the switch key is within an operation section which may include a single operation key/element operable by a user (col 1, lines 44-47, lines 64-65). Uchida does not disclose explicitly the key being any one of a plurality of keys provided on the mobile telecommunication terminal. Cushman disclose an OPT key which operates as a switch to change one function to another (col 3, lines 10-27). It would have been obvious to one of ordinary skill in the art at the time the invention was made to have the operation section of Uchida be included with other operation keys as that of Cushman in order to provide more versatility for user interface control as suggested by Cushman.

Regarding claim 2, Uchida and Cushman disclose the key input method of claim 1, wherein Uchida discloses further comprising a step of performing an original function (message confirmation) of the input key when the user has not consecutively inputted the same key before elapse of the predetermined time period for consecutive input (col 4, lines 36-47).

Regarding claim 3, Uchida discloses the key input method of claim 1, wherein Uchida does not disclose the key is one of a plurality of alphanumeric keys in the mobile telecommunication terminal. Cushman discloses the key is one of a plurality of alphanumeric keys in the mobile telecommunication terminal (col 4, lines 18-28). It would have been obvious to one of ordinary skill in the art at the time the invention was made to replace the function key with an alphanumeric key in order to give more convenience to the user in pressing an alphanumeric key on the keypad section instead of a function key elsewhere on the mobile terminal.

Regarding claim 4, Uchida and Cushman disclose the key input method of claim 1, wherein Uchida discloses the key is one a plurality of functional keys (functional key 10) in the mobile telecommunication terminal (fig. 1).

5. Claim 10 is rejected under 35 U.S.C. 103(a) as being unpatentable over Seidensticker, Jr. et al (US 6,362,814)

Regarding claim 10, Seidensticker, Jr. et al disclose the key input method of claim 5, wherein Seidensticker Jr. et al do not disclose the key set for the scroll function is one of a plurality of alphanumeric keys in the mobile telecommunication terminal. However, it is notoriously old in the art to have alphanumeric keys set for the scroll

function instead of special function keys in order to provide alphanumeric keys also to enter and edit names and addresses' entries as well as provide special function in the same keypad to reduce the mobile terminal's components and space.

Response to Arguments

6. Applicant's arguments and amendment with respect to claims 1-4 have been considered but are moot in view of the new ground(s) of rejection.

7. Applicant's arguments and amendment with respect to claim 5 filed 6/15/07 have been fully considered but they are not persuasive.

Regarding claim 5, applicant states Seidensticker et al do not disclose the key being any one of a plurality of keys provided on the mobile telecommunication terminal. However, the examiner respectfully disagrees. Seidensticker et al disclose a plurality of keys on keypad 36 (figs. 1, 2) of the mobile terminal.

Allowable Subject Matter

8. Claims 6-9 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

Regarding claim 6, Seidensticker Jr. et al disclose the key input method of claim 5, wherein Cushman discloses the controlling step comprises the following sub-steps if the menu screen comprises a scroll screen of upward and downward directions (col 6, lines 15-16); wherein cited prior art fails to further disclose:

moving and displaying the cursor of the menu item to a downward menu item when the key input state is not maintained for the predetermined period of time; and

moving and displaying the cursor of the menu item to an upward menu item when the key input state is maintained for the predetermined period of time.

Regarding claim 7, Seidensticker Jr. et al disclose the key input method of claim 5, wherein cited prior art fails to further disclose the method further comprising the sub-steps of:

moving and displaying the cursor of the menu item to an upward menu item when the key input state is not maintained for the predetermined period of time;

moving and displaying the cursor of the menu item to a downward menu item when the key input state is maintained for the predetermined period of time.

Regarding claim 8, Seidensticker Jr. et al disclose the key input method of claim 5, wherein the cited prior art fails to further disclose the controlling step comprises the following sub-steps if the menu screen comprises a scroll screen of left and right directions:

moving and displaying the cursor of the menu item to a right menu item when the key input state is not maintained for the predetermined period of time; and

moving and displaying the cursor of the menu item to a left menu item when the key input state is maintained for the predetermined period of time.

Regarding claim 9, Seidensticker Jr. et al disclose the key input method of claim 5, wherein the cited prior art fails to further disclose the method further comprising the sub-steps of:

moving and displaying the cursor of the menu item to a left menu item when the key input state is not maintained for the predetermined period of time; moving and displaying the cursor of the menu item to a right menu item when the key input state is maintained for the predetermined period of time.

Conclusion

9. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Lana N Le whose telephone number is (703) 308-5836. The examiner can normally be reached on M-F.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Edward F Urban can be reached on (703) 305-4385. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

LNL
/lnl/

Lana N. Le
7-06-07

LANA LE
PRIMARY EXAMINER